

W1935-03

(17)

**CONTINUOUS PRODUCTION OF POLYESTER**

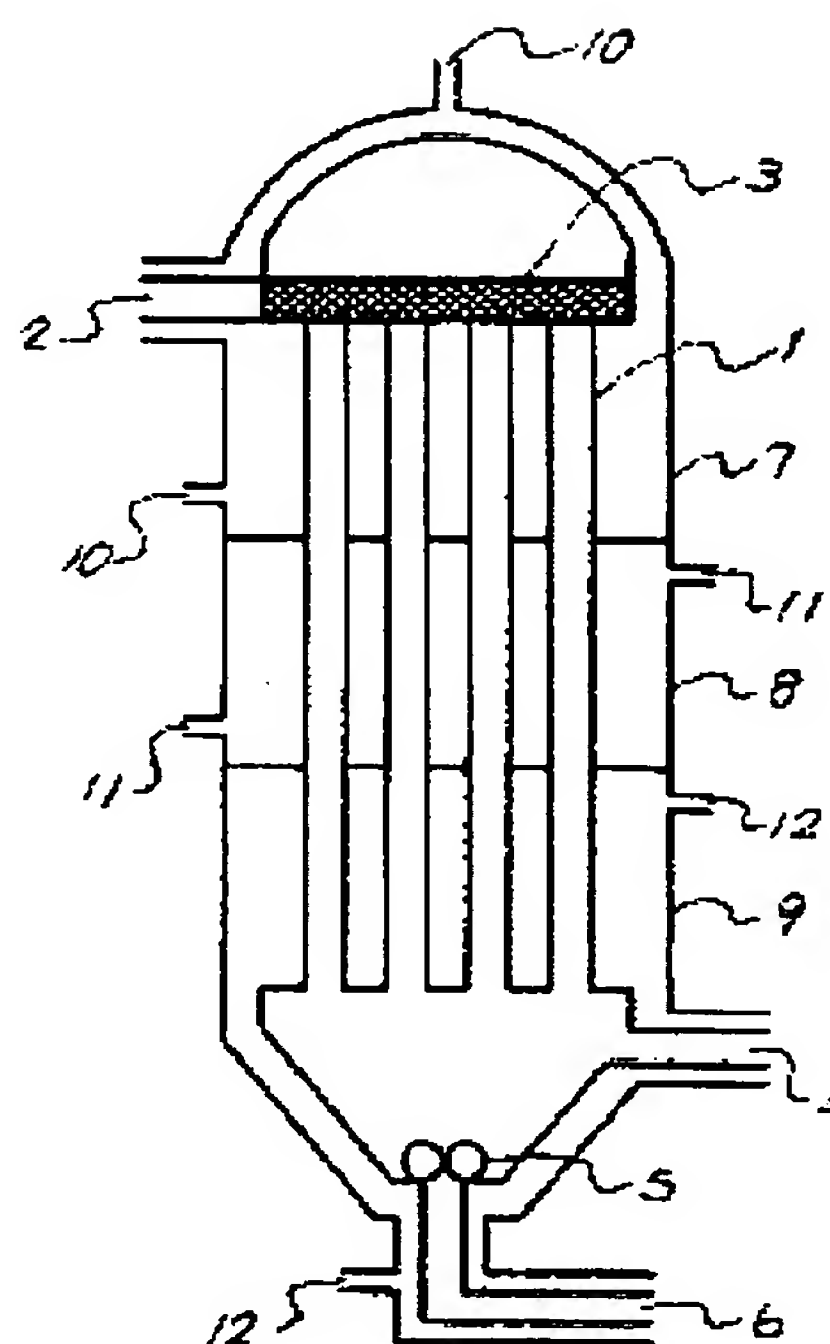
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**Abstract of JP55127430**

**PURPOSE:** To produce continuously polyester without agitation mechanism by a method wherein bishydroxyalkyl terephthalate or low polymer thereof is supplied to a wetted-wall column the temperature is lowered stepwise with the flowing down of the supplied material and vacuum suction is carried out at the lower part of the column.

**CONSTITUTION:** Polymerizable liquid consisting mainly of raw material polyester is supplied through a raw material polyester supply pipe 2 to a distributing supply part 3. The distributed liquid flows down in the form of film along the wall surface of the wetted-wall column 1. The pressure of the wetted-wall column 1 is reduced by means of a vacuum suction port 4 provided at the bottom of the column. The temperature of the liquid which flows down along the surface of the wall becomes lower by three jackets 7, 8, 9 as the liquid approaches the bottom of the column. The temperature of the jackets is adjusted by heating medium which is supplied from pipes 10, 11, 12 and discharged. Byproduct glycol component is discharged from the vacuum suction port 4. The product polyester is withdrawn through a gear pump 5 and a discharge pipe 6.



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